

## Cowley County

8/31/2020

### Background Statistics<sup>1</sup>

Number of farms: 921

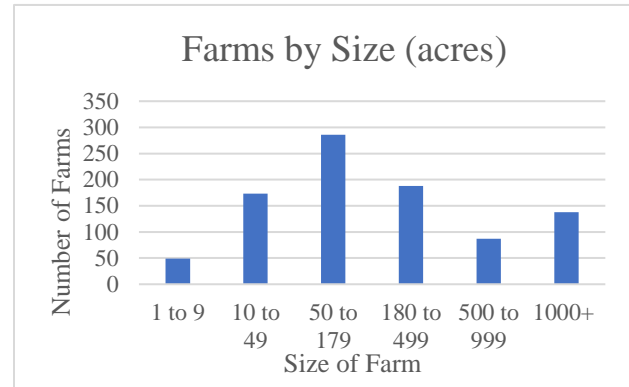
Average size: 612 acres

Land in farms: 563,453 acres

Average value of products sold per farm: \$104,793

Average net cash farm income per farm: \$23,902

1: Data from USDA 2017 Census of Agriculture



## Estimated Economic Contribution of Agriculture and Agriculture Related Sectors to the Cowley County Economy

### Methodology

The estimated economic contribution of agriculture and agriculture related sectors was computed using the most recent IMPLAN data available (2018) adjusted for 2020. The IMPLAN modeling system was used to calculate the results of this analysis. The IMPLAN model was constructed so that double counting was avoided. For this report, 30 of the 71 agriculture and agriculture related sectors in Kansas were identified and analyzed to determine their overall contribution to the Cowley County economy.

### Results

These 30 sectors have a total direct output of approximately **\$2.3 billion** and account for **2,732 jobs** in Cowley County. Running the model for all 30 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Cowley County Economy					
Contribution Type	Employment	% Employment	Total Value Added	% of Gross Regional Product	Output
Direct Effect	2,732	14%	\$631,500,000	35%	\$2,313,500,000
Indirect Effect	973	5%	\$78,000,000	4%	\$182,800,000
Induced Effect	639	3%	\$39,300,000	2%	\$72,600,000
<b>Total Effect</b>	<b>4,345</b>	<b>22%</b>	<b>\$748,700,000</b>	<b>42%</b>	<b>\$2,568,900,000</b>

**NOTE:** Individual effects may not equal the total effect due to rounding.

As shown in the above table, agriculture, food, and food processing sectors support a total of **4,345 jobs**, or **22%** of the entire workforce in the county. The total final sales of all products in these sectors is approximately **\$2.6 billion**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of Gross Regional Product (GRP). Total value added by the 30 agriculture, food, and food processing sectors is approximately **\$748.7 million**, or **42%** of the GRP.

## Top Ten Sectors by Employment

Out of the agriculture and agriculture related sectors, animal, except poultry, slaughtering is the top employer with **699 jobs**. This table also illustrates the top ten sectors by total employment, including direct, indirect, and induced effects in Cowley County.

Sector	Total Employment
Animal, except poultry, slaughtering	699
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	695
Flavoring syrup and concentrate manufacturing	462
Meat processed from carcasses	154
Landscape and horticultural services	122
Monetary authorities and depository credit intermediation	109
Insurance agencies, brokerages, and related activities	102
Flour milling	100
Other real estate	99
Truck transportation	94

## Top Ten Sectors by Output

This table shows how much revenue is generated in other sectors by having a strong agriculture industry, including direct, indirect, and induced effects. The flavoring syrup and concentrate manufacturing sector is the top contributor, with approximately **\$1.5 billion** to the Cowley County economy.

Sector	Total Output
Flavoring syrup and concentrate manufacturing	\$1,455,000,000
Animal, except poultry, slaughtering	\$482,400,000
Flour milling	\$118,800,000
Meat processed from carcasses	\$78,900,000
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$72,400,000
Rail transportation	\$26,500,000
Monetary authorities and depository credit intermediation	\$26,300,000
Oilseed farming	\$26,100,000
Dairy cattle and milk production	\$21,800,000
Grain farming	\$21,600,000

## All Direct Sectors

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Cowley County economy. IMPLAN sectors are assigned based on North American Industry Classification System (NAICS) codes. Generally, this analysis includes three categories; production, manufacturing/processing, and services. Note that this analysis does not include wholesale or retail sales of final products, or ethanol production.

Sector	Total Output	Total Employment
Flavoring syrup and concentrate manufacturing	\$1,454,965,770.48	461.98
Animal, except poultry, slaughtering	\$482,380,251.69	698.78
Flour milling	\$118,773,367.93	100.45
Meat processed from carcasses	\$78,929,327.29	154.11
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	\$72,394,401.92	694.53
Oilseed farming	\$26,088,976.00	31.23
Dairy cattle and milk production	\$21,759,794.84	43.43
Grain farming	\$21,588,122.57	80.83
Cotton farming	\$11,764,114.32	94.20
Landscape and horticultural services	\$5,588,051.69	121.99
Support activities for agriculture and forestry	\$3,324,884.61	94.36
Confectionery manufacturing from purchased chocolate	\$2,826,253.46	3.90
Veterinary services	\$2,820,484.44	34.84
Bread and bakery product, except frozen, manufacturing	\$1,896,267.64	14.48
All other crop farming	\$1,611,840.46	52.45
Frozen cakes and other pastries manufacturing	\$1,295,138.06	14.50
Other animal food manufacturing	\$1,238,746.35	1.19
Animal production, except cattle and poultry and eggs	\$915,240.90	7.30
Wineries	\$600,027.32	1.83
Other snack food manufacturing	\$586,816.04	1.13
Roasted nuts and peanut butter manufacturing	\$457,406.94	1.11
Poultry and egg production	\$347,053.50	0.42
Commercial logging	\$326,611.89	7.11
Vegetable and melon farming	\$239,191.15	1.40
Commercial hunting and trapping	\$223,894.02	8.47
Other leather and allied product manufacturing	\$165,808.25	2.24
Greenhouse, nursery, and floriculture production	\$157,237.95	0.88
Tree nut farming	\$94,338.58	1.47
Forestry, forest products, and timber tract production	\$87,071.82	1.07
Fruit farming	\$39,364.42	0.25

The following terms are used throughout the results shown in this report:

- **Direct effect:** the contribution from agricultural and food products
- **Indirect effect:** the contribution from farms and agricultural businesses purchasing inputs from supporting industries within the state
- **Induced effect:** the contribution from employees of farms, agricultural businesses, and supporting industries spending their wages on goods and services within the state
- **Value added** = labor income + indirect business taxes + other property type income
- **Gross Regional Product** = final demand of households + government expenditures + capital + exports – imports – institutional sales
- **Output** = intermediate inputs + value added
- **Employment:** full-time/part-time annual average i.e., 1 job lasting 12 months = 2 jobs lasting 6 months each = 3 jobs lasting 4 months each. A job is neither full-time nor part-time.
- Due to confidentiality policies that exist within several agencies from which IMPLAN collects their data, some sectors in some regions may not have all data available.

For more information, contact the Division of Agricultural Marketing, Advocacy and Outreach Agency Economist

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